CLAIMS

- 1. A method of making a silicone oil-in-water emulsion comprising the steps of:
- (i) forming a homogeneous oil phase containing a silicone gum, a silicone rubber, a silicone elastomer, a silicone resin, or a mixture thereof; the silicone in the homogeneous oil phase
- having a viscosity of at least 100,000,000 (100 million) centistoke (mm²/s) to 5,000,000,000 (5 billion) centistoke (mm²/s); (ii) mixing one or more surfactants with the homogenous oil phase; (iii) adding water to the homogenous oil phase to form a water-in-oil emulsion containing a continuous phase and a dispersed phase, the water being added in an amount of about 0.5-10 percent by weight based on the weight of the silicone in the homogenous oil phase; (iv) applying high shear to the water-in-oil emulsion in a twin severe to the interval of the silicone in the homogenous oil
 - phase; (iv) applying high shear to the water-in-oil emulsion in a twin-screw extruder having a length to diameter L/D ratio of at least 15, to cause inversion of the water-in-oil emulsion to an oil-in-water emulsion; and (v) diluting the oil-in-water emulsion by the addition of water; the method being carried out in the absence of a solvent other than solvents present in the silicone gum, silicone rubber, silicone elastomer, or silicone resin in (i).

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- 2. A method according to Claim 1 wherein the silicone in the homogenous oil phase has a viscosity of at least 200,000,000 (200 million) centistoke (mm^2/s) to 2,000,000,000 (2 billion) centistoke (mm^2/s).
- 3. A method according to Claim 1 wherein the silicone in the homogenous oil phase has a viscosity of at least 1,000,000,000 (1 billion) centistoke (mm²/s).
 - 4. A method according to Claim 1 wherein the silicone in the homogenous oil phase is a silicone resin.
- 25 5. A method according to Claim 1 wherein the amount of water added in (iii) is about 1-5 percent by weight based on the weight of the silicone in the homogenous oil phase
 - 6. A method according to Claim 1 wherein the L/D ratio of the twin-screw extruder is 15-60.
- 30 7. A silicone oil-in-water emulsion prepared according to the method defined in Claim 1.

8. A personal care product, medical product, coating product, household care product, or product for application to paper, containing the silicone oil-in-water emulsion prepared